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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A ~~improved method for displaying~~ display of a ~~transitional~~ region of interest while transitioning between first and second locations for the a ~~first~~ region of interest and a ~~second region of interest~~ within visual information on a display screen of a computer, said method comprising the steps of :

applying a transformation to the visual information to improve visual detail in a border region of the region of interest by: creating a lens surface for the border region having a predetermined lens surface shape; and creating a presentation by overlaying the visual information on the lens surface and projecting the lens surface with the visual information onto a plane in a viewer-aligned direction; and,

~~applying a transitional transformation to said visual information, said transitional transformation requiring reduced calculations for transforming said visual information to transitional transformed visual information; and~~

~~displaying the presentation said transitional transformed visual information on the said display screen.~~

2. (Currently Amended) The method of claim 1 wherein ~~said transitional~~ the transformation transforms ~~reduces calculations by transforming~~ only a portion of ~~said~~ the visual information in the said transitional region of interest.

3. (Currently Amended) The method of claim 2 wherein the said portion of ~~said visual information in said transitional region of interest~~ is a the border of the said transitional region of interest.

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4. (Currently Amended) The method of claim 1 3 wherein the border region ~~said portion of said visual information in said transitional region of interest~~ is a periphery of the said transitional region of interest.

5. (Currently Amended) The method of claim 1 3 wherein the lens surface for the border region ~~is defined by a distortion function said step of applying a transitional transformation further comprises the steps of:~~

~~creating an intermediary lens surface having a predetermined shape for said transitional region of interest; and~~

~~creating said transitional transformed visual information by overlaying said visual information on said transitional lens surface and projecting said lens surface with said overlaid visual information onto a plane .~~

6. (Currently Amended) The method of claim 1 5 wherein ~~said predetermined shape of said transitional lens surface~~ the lens surface for the border region is defined by a predetermined portion of a first lens surface for rendering the said first region of interest.

7. (Currently Amended) The method of claim 6 wherein the said predetermined portion is a border region of the said first lens surface for rendering the region of interest .

8. (Currently Amended) The method of claim 7 wherein the said predetermined portion is a periphery of the said first lens surface for rendering the region of interest .

9. (Cancelled)

10. (Currently Amended) The method of claim 1 9 and further comprising ~~the step of selecting~~ establishing a said path between the said first region of interest and said second locations for the region of interest.

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11. (Currently Amended) The method of claim 10 9 wherein the path is established automatically by a predetermined program ~~said predetermined portion of said transitional region of interest is the border of said transitional region of interest .~~

12. (Currently Amended) The method of claim 10 9 wherein the path is established by user selection ~~said predetermined portion of said transitional region of interest is the periphery of said transitional region of interest .~~

13. (Currently Amended) The method of claim 1 and further comprising A method for displaying visual information on a display screen of a computer, said method comprising the steps of :

~~selecting a region of interest within said visual information;~~
~~applying a transformation to said visual information for improving visual detail and presentation quality in said region of interest, said transformation for overlaying said visual information on a lens surface, said lens surface having predetermined shape for said region of interest;~~
~~projecting said lens surface with said overlaid visual information onto a plane;~~
~~increasing resolution of the said visual information in the said region of interest; and,~~
~~decreasing resolution of the said visual information outside the said region of interest ;~~
~~and~~
~~displaying said transformed visual information on said display screen .~~

14. (Currently Amended) The method of claim 13 wherein the transformation method further provides a smooth transition to the said region of interest from an adjacent region , ~~said smooth transition resulting from~~ by blending said increased and said decreased resolution visual information in predefined regions adjacent to the said region of interest.

15. (Currently Amended) The method of claim 14 wherein ~~said step of the blending is performed~~ accomplished by averaging said the increased and said decreased resolution visual information.

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16. (Currently Amended) ~~The method of claim 14 wherein said step of the blending is performed accomplished by admixing said the increased and said decreased resolution visual information.~~

17. (Currently Amended) ~~The method of claim 14 and further comprising transmitting the presentation over a network to a remote computer A data carrier having stored thereon instructions for improving display of a transitional region while transitioning between a first region of interest and a second region of interest within visual information on a display screen of a computer, said instructions comprising the steps of:~~

~~applying a transitional transformation to said visual information, said transitional transformation having a reduced a number of calculations required for rendering said transitional transformed visual information; and
displaying said transitional transformed visual information on said display screen .~~

18. (Currently Amended) ~~The method of claim 1 wherein the visual information includes a A method for use with portable document format (PDF) document files for displaying visual information on a display screen of a computer, comprising the steps of:~~

~~scaling said visual information to produce a scaled representation to fit on said display screen said scaled representation containing the entire content of said visual information;
selecting a region of interest within said scaled representation;
applying a transformation to said scaled representation to improve the visual detail in said region of interest; and
displaying said transformed representation on said display screen .~~

19. (Currently Amended) ~~The method of claim 6 18 wherein the lens surface for rendering the region of interest is defined by the distortion function said step of applying a transformation further comprising the steps of: creating a lens surface of predetermined shape for said region of interest; and creating a transformed representation by overlaying said scaled representation on said lens surface and projecting said lens surface with said overlaid scaled representation onto a plane .~~

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20. (Currently Amended) The method of claim 1 19 wherein the said region of interest, the said lens surface, and the said lens surface shape include a plurality of regions of interest, a plurality of lens surfaces, and a plurality of lens surface shapes, respectively.

21. (Currently Amended) The method of claim 1 18 wherein the said visual information includes ~~is selected from the group consisting of~~ newspapers, magazines, telephone directories, and maps.

22. (Currently Amended) The method of claim 1 18 wherein the said visual information includes web page content.

23. (Currently Amended) The method of claim 1 18 wherein the said display screen is contained in a handheld device.

24. (Currently Amended) The method of claim 1 18 wherein the said visual information is a newspaper page.

25. (Currently Amended) The method of claim 24 wherein the said newspaper page includes a plurality of headlines, columns, articles, graphics, and advertisements.

26. (Currently Amended) The method of claim 25 wherein the said region of interest includes ~~is selected from the group consisting of~~ a headline, a column, an article, a graphic, and an advertisement.

27. (Currently Amended) The method of claim 26 wherein the said lens surface shape has a ~~includes the shape corresponding to that of the said~~ region of interest.

28. (Currently Amended) The method of claim 27 wherein the said lens surface shape has a shape corresponding to is a column .

29. (Currently Amended) The method of claim 28 wherein the transformation increases ~~said lens surface functions to increase~~ the font size within a portion of the said column.

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30. (Currently Amended) The method of claim 29 wherein the ~~said~~ lens surface shape is tapered to provide a continuous transition on at least one either side of the ~~said~~ portion of the ~~said~~ column to undistorted ~~unmagnified~~ text.

31. (Currently Amended) The method of claim 18 and further comprising ~~The use of a method for displaying visual information from portable document format (PDF) files on a display screen of a computer for, said method comprising the steps of:~~

scaling the ~~said~~ visual information to ~~produce a scaled representation to fit on the said display screen said scaled representation containing the entire content of said visual information;~~

~~selecting a region of interest within said scaled representation;~~

~~applying a transformation to said scaled representation to improve the visual detail in said region of interest; and~~

~~displaying said transformed representation on said display screen .~~